FIG. 1

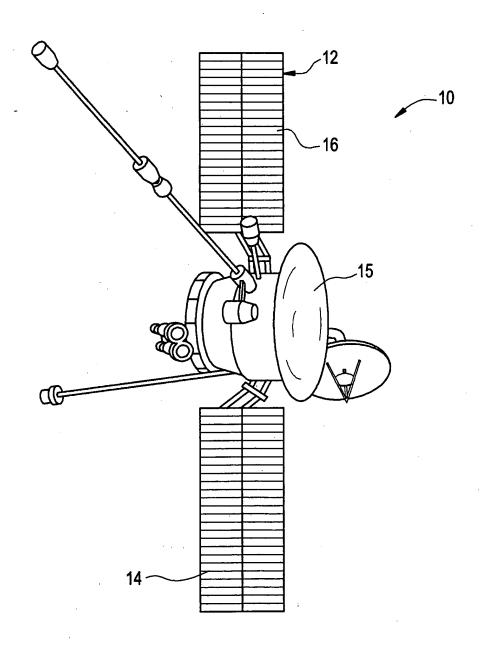


FIG. 2

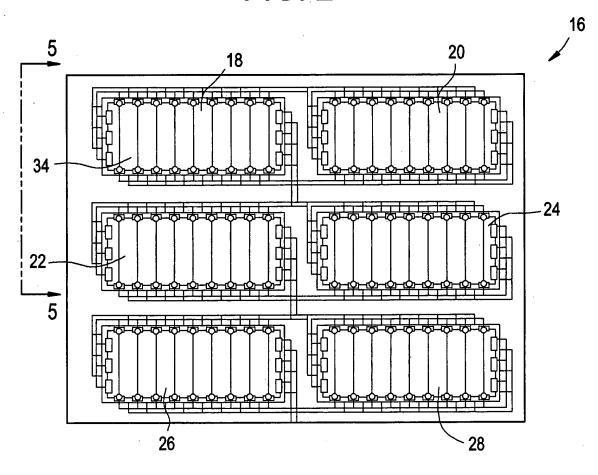


FIG. 3

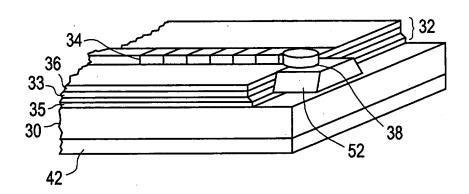
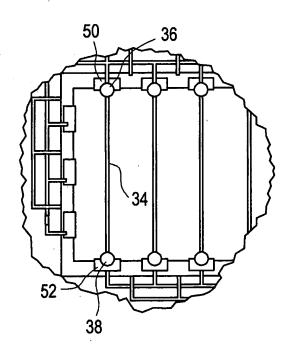


FIG. 4



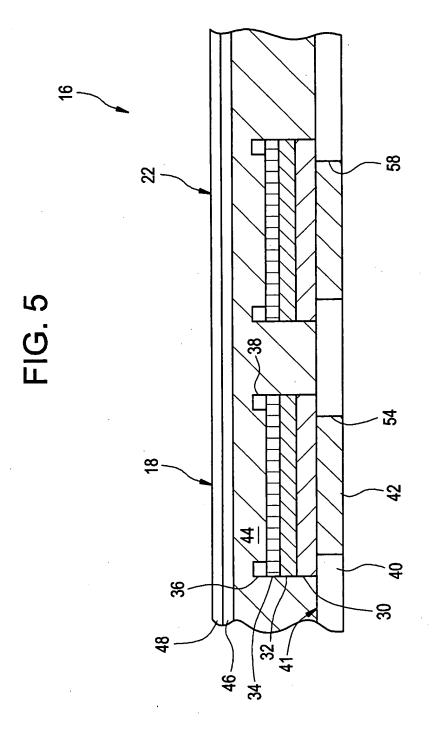
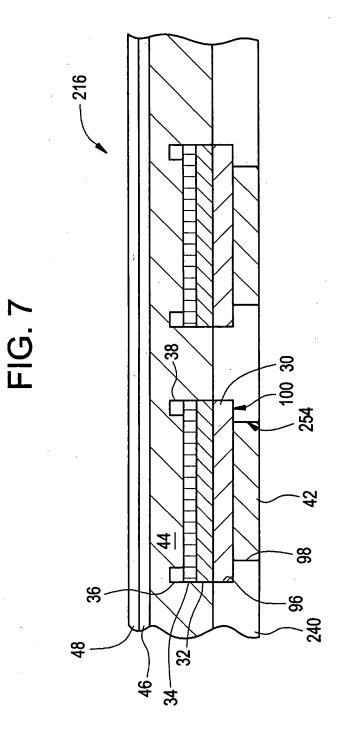
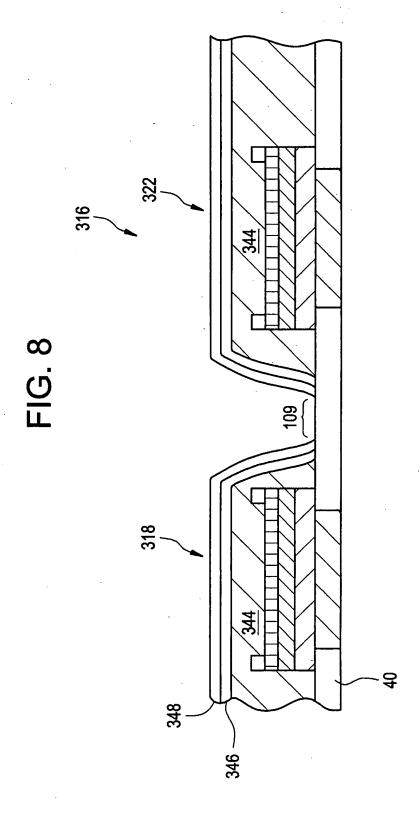


FIG. 6

p3 i3 a-Si (blue - 1.8 eV) n3 p2	_3
i3 a-Si (blue - 1.8 eV) n3	•
n3	
p2	
i2 a-SiGe alloy (green - 1.6 eV)	
n2	
p1	:
i1 a-SiGe alloy (red - 1.4 eV)	
n1	





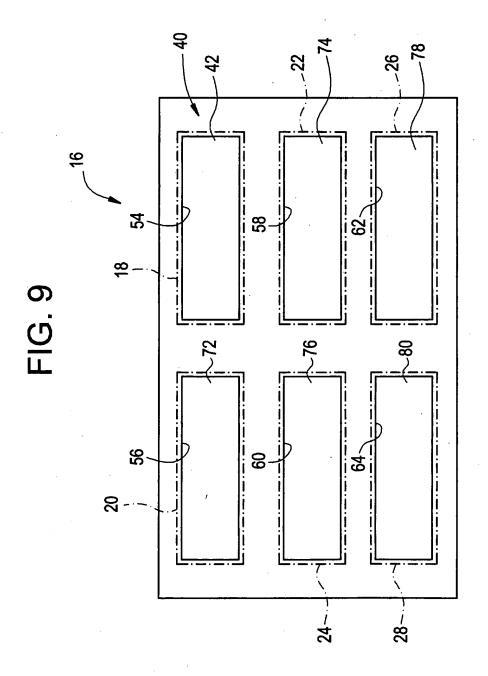
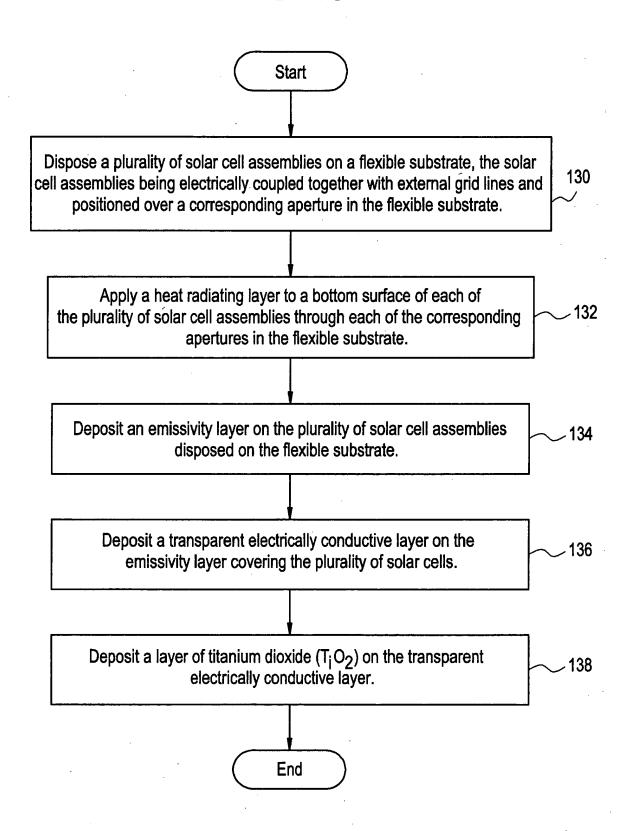


FIG. 10



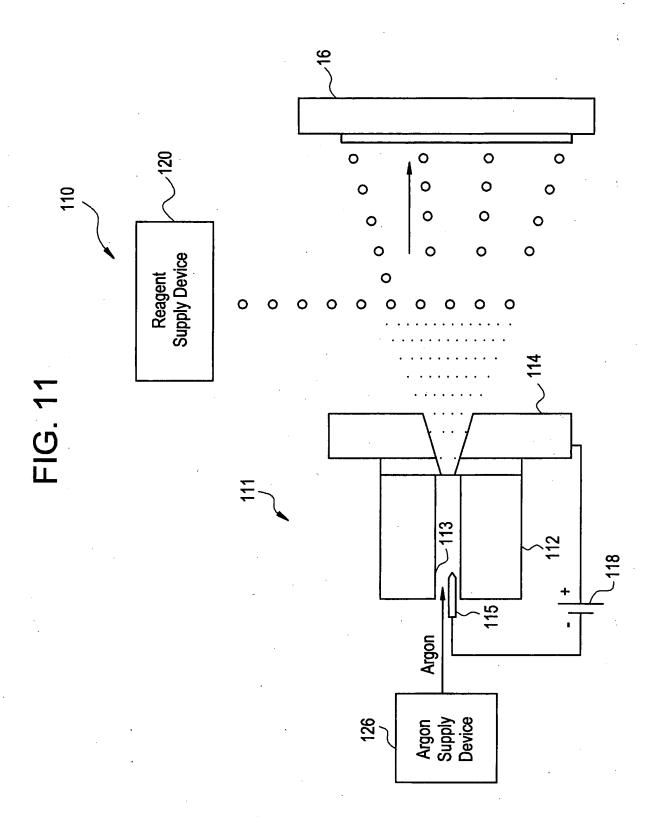


FIG. 12

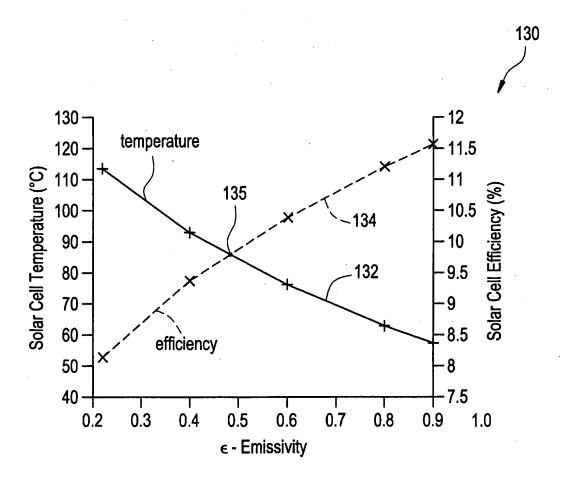


FIG. 13

